C1

SEQUENCE LISTING

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Schneider, Andrew J.

<120> PEPTIDE ANTIANGIOGENIC DRUGS

<130> 6356.US.P3

<140> 09/447,226
<141> 1999-11-22

<150> US 09/316,888
<151> 1999-05-21

<150> US 60/126,546
<151> 1999-03-26

<150> US 60/086,536
<151> 1998-05-22

<160> 6

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<220>
<223> Antiangiogenetic Peptide

<221> VARIANT
<222> (1)...(1)
<223> Xaa = Ala, Asn, Cit, Gln, Glu, NEtGly, Met, N-methylalanyl, Pro, pyro-Glu, Sar, Ser, or Thr at position 1

<221> VARIANT
<222> (2)...(2)
<223> Xaa = Ala, Asn, Asp, Gln, Glu, Leu, Met, Phe, Pro, or Ser at position 2

<221> VARIANT
<222> (3)...(3)
<223> Xaa = Ala, Asn, Cit, Cha, Chg, Gln, Glu, Gly, Ile, Leu, Met, Nva, Phe, Ser, tButylgly, Thr, Val, Pen, or Cys at position 3

<221> VARIANT

<222> (4)...(4)
<223> Xaa = alloIle, Gly, Ile, Pro, or dehydroleu at position 4

C1 cont.

<221> VARIANT
<222> (5)...(5)
<223> Xaa = Ala, 3-Pal, 1-Nal, 2-Nal, allo-threonyl, allylgly, Gln, Gly, His, Hser, Ile, Lys(Ac), Met, Nva, Octylgly, Orn, Phe(4-CH2OH), Pro, Ser, Thr, Trp, Tyr, Pen, or Cys at position 5

<221> VARIANT
<222> (6)...(6)
<223> Xaa = Ala, 1-Nal, 2-Nal, 3-Pal, Abu, allylgly, Arg, Asn, Asp, Cit, Cha, Gln, Glu, Gly, His, Homoala, Hle, Hser, Ile, Leu, Lys(Ac), Lys(Isp), at position 6

<221> VARIANT
<222> (6)...(6)
<223> 6 Cont'd:
Xaa = Met(O2), Met(O), Met, Nor, Nva, Octygly, Phe, Phe(4-CONH2), Propargylgly, Ser, Thr, Trp, Tyr, Val, Pen, or Cys at position 6

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, Allylgly, Asn, Cit, Chg, Gln, Gly, Hser, Ile, alloIle, Leu, Lys(Ac), Met, 1-Nal, 2-Nal, Nva, Phe, Pro, Ser, tButylgly, Trp, Tyr, Val, Pen, or Cys at position 7

<221> VARIANT
<222> (8)...(8)
<223> Xaa = Aminopyprimidinobutanoyl, Ala(3-guanidino), Ala(3-pyrrolidinylamidino), Ala[4-Pip(N-amidino)], Arg, arginyl(NGNG'diethyl), Cit, Cha(4-NIsp), Gly[4-pip(N-amido)], at position 8

<221> VARIANT
<222> (8)...(8)
<223> 8 Cont'd:
Xaa = His, Harg, Lys, Lys(Ile), Lys(Nic), Norarg, Orn(Isp), Orn(Nic), Orn(2-imidazo), Phe(4-CH2NHIsp), Phe(4-guanidino), or Phe(4-NIsp) at position 8

<221> VARIANT
<222> (9)...(9)
<223> Xaa = Abu, Aib, homoprolyl, hydroxyprolyl, Ile, Leu, Phe, Pro, Ser, tButylgly, Tic, Thr, or Val at position 9

<221> VARIANT
<222> (10)...(10)
<223> Xaa = azaglycylamide, glycylamide, glycylethylamide, sarcosylamide, serylamide at

position 10

<400> 1
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 2
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Antiangiogenetic peptide

<221> VARIANT
<222> (1)...(1)
<223> Xaa = sarcosyl at position 1

<221> VARIANT
<222> (6)...(6)
<223> Xaa = norvaline at position 6

<400> 2
Xaa Gly Val Ile Thr Xaa Ile Arg Pro
1 5

<210> 3
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<223> Antiangiogenetic peptide

<221> VARIANT
<222> (1)...(1)
<223> Xaa = sarcosyl at position 1

<221> VARIANT
<222> (6)...(6)
<223> Xaa = norvaline at position 6

<400> 3
Xaa Gly Val Gly Thr Xaa Ile Arg Pro
1 5

<210> 4
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<220>
<223> Antiangiogenetic peptide

<221> VARIANT
<222> (1)...(1)
<223> Xaa = sarcosyl at position 1

<221> VARIANT
<222> (4)...(4)
<223> Xaa = allo-isoleucyl at position 4

<221> VARIANT
<222> (6)...(6)
<223> Xaa = norvaline at position 6

<400> 4
Xaa Gly Val Xaa Thr Xaa Ile Arg Pro
1 5

<210> 5
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<220>
<223> Antiangiogenetic peptide

<221> VARIANT
<222> (1)...(1)
<223> Xaa = sarcosyl at position 1

<221> VARIANT
<222> (4)...(4)
<223> Xaa = dehydroleucyl at position 4

<221> VARIANT
<222> (6)...(6)
<223> Xaa = norvaline at position 6

<400> 5
Xaa Gly Val Xaa Thr Xaa Ile Arg Pro
1 5

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<220>
<223> Antiangiogenetic Peptide

<221> VARIANT
<222> (1)...(1)
<223> Xaa = R-(CH2)n-C(O)- where R is N-acetylamino at position 1

<221> VARIANT
<222> (2)...(2)

<223> Xaa = Sar at position 2

<221> VARIANT
<222> (5)...(5)
<223> Xaa = AlloIle, dehydroleu, Gly, Ile or Pro at position 5

C1 Conclude

<221> VARIANT
<222> (6)...(6)
<223> Xaa = Ala, 3-Pal, 1-Nal, 2-Nal, allo-threonyl, allylgly, Gln, Gly, His, Hser, Ile, Lys(Ac), Met, Nva, Octylgly, Orn, Phe(3-CH2OH), Pro, Ser, Thr, Trp, Tyr, Pen or Cys at position 6

<221> VARIANT
<222> (7)...(7)
<223> Xaa = Ala, 1-Nal, 2-Nal, 3-Pal, Abu, allylgly, Arg, Asn, Asp, Cit, Cha, Gln, Glu, Gly, His, Homoala, Hle, Hser, Ile, Leu, Lys(Ac), Lys(Isp), at position 7

<221> VARIANT
<222> (7)...(7)
<223> 7 Con'td:
Xaa = Met(O2), Met(O), Met, Nor, Nva, Octygly, Phe, Phe(4-CONH2), Proparglygly, Ser, Thr, Trp, Tyr, Val, Pen, or Cys at position 7

<221> VARIANT
<222> (11)...(11)
<223> Xaa = Azaglycylamide, glycylamide, glycylethylamide, sarcosylamide, serylamide at position 11

<400> 6
Xaa Xaa Gly Val Xaa Xaa Xaa Ile Arg Pro Xaa
1 5 10